



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

NATIONAL EXPOSURE RESEARCH LABORATORY
HUMAN EXPOSURE & ATMOSPHERIC SCIENCES DIVISION (MD-46)

Research Triangle Park, NC 27711

919-541-2622

Office of
Research and Development

LIST OF DESIGNATED REFERENCE AND EQUIVALENT METHODS

Issue Date: September 1, 1999

(www.epa.gov/ttn/amtic/criteria.html)

These methods for measuring ambient concentrations of specified air pollutants have been designated as "reference methods" or "equivalent methods" in accordance with Title 40, Part 53 of the Code of Federal Regulations (40 CFR Part 53). Subject to any limitations (e.g., operating range) specified in the applicable designation, each method is acceptable for use in state or local air quality surveillance systems under 40 CFR Part 58 unless the applicable designation is subsequently canceled. Automated methods are acceptable for use at shelter temperatures between 20°C and 30°C and line voltages between 105 and 125 volts unless wider limits are specified in the method description.

Prospective users of the methods listed should note (1) that each method must be used in strict accordance with its associated operation or instruction manual and with applicable quality assurance procedures, and (2) that modification of a method by its vendor or user may cause the pertinent designation to be inapplicable to the method as modified. (See Section 2.8 of Appendix C, 40 CFR Part 58 for approval of modifications to any of these methods by users.)

Further information concerning particular designations may be found in the *Federal Register* notice cited for each method or by writing to the National Exposure Research Laboratory, Human Exposure and Atmospheric Sciences Division (MD-46), U.S. Environmental Protection Agency, Research Triangle Park, North Carolina 27711. Technical information concerning the methods should be obtained by contacting the source listed for each method. Source addresses are listed at the end of the listing of methods, except for the addresses for lead method sources, which are given with the method. New analyzers or PM₁₀ samplers sold as reference or equivalent methods must carry a label or sticker identifying them as designated methods. For analyzers or PM₁₀ samplers sold prior to the designation of a method with the same or similar model number, the model number does not necessarily identify an analyzer or sampler as a designated method. Consult the manufacturer or seller to determine if a previously sold analyzer or sampler can be considered a designated method or if it can be upgraded to designation status. Analyzer users who experience operational or other difficulties with a designated analyzer or sampler and are unable to resolve the problem directly with the instrument manufacturer may contact EPA (preferably in writing) at the above address for assistance.

This list will be revised as necessary to reflect any new designations or any cancellation of a designation currently in effect. The most current revision of the list will be available for inspection at EPA's Regional Offices, and copies may be obtained by writing to the National Exposure Research Laboratory at the address specified above.

Most Recent Designations

- BGI Inc. Model PQ200/PQ200A PM_{2.5} Ambient Fine Particle Sampler, April 1998
- Rupprecht & Patashnick, Inc. Partisol®-FRM Model 2000 PM-2.5 Air Sampler, April 1998
- Rupprecht & Patashnick, Inc. Partisol®-Plus Model 2025 PM-2.5 Sequential Air Sampler, April 1998
- Graseby Andersen Model RAAS2.5-100 PM_{2.5} Ambient Air Sampler, June 1998
- Graseby Andersen Model RAAS2.5-300 PM_{2.5} Sequential Ambient Air Sampler, June 1998
- Horiba Instruments, Inc. Model APSA-360/APSA-360-CE/APSA-360ACE Ambient SO₂ Monitor, June 1998
- Advanced Pollution Instrumentation, Inc. Model 400A Ozone Analyzer, June 1998
- DKK Corporation Model GLN-114E Nitrogen Oxides Analyzer, August 1998
- Met One Instruments, Inc. Models BAM1020/1021-1, GBAM1020/1020-1 PM₁₀ Beta Attenuation Monitors, August 1998
- Thermo Environmental, Inc. Model 605 "CAPS" Sampler, October 1998
- BGI Inc. Models PQ100 and PQ200 PM₁₀ Air Samplers, December 1998
- Rupprecht & Patashnick, Inc. Partisol®-FRM Model 2000 PM-10 Air Sampler, December 1998
- Rupprecht & Patashnick, Inc. Partisol®-Plus Model 2025 PM-10 Sequential Air Sampler, December 1998
- Andersen Model RAAS2.5-200 PM2.5 Audit Air Sampler, March 1999
- Rupprecht & Patashnick, Inc. Partisol® Model 2000 PM-2.5 Audit Sampler, April 1999
- Andersen Models RAAS10-100, RAAS10-200, and RAAS10-300 Samplers, June 1999

LEAD

Reference Method for Lead

Reference Method for the Determination of Lead in Suspended Particulate Matter Collected from Ambient Air.

Manual Reference Method: 40 CFR Part 50, Appendix G

[*Federal Register: Vol. 43, page 46258, 10/05/78*]

Energy-Dispersive X-Ray Fluorescence Spectrometry (TNRCC)

"Determination of Lead Concentration in Ambient Particulate Matter by Energy-Dispersive X-Ray Fluorescence Spectrometry (Texas Natural Resource Conservation Commission)" Texas Natural Resource Conservation Commission, P.O. Box 13087, Austin, TX 78711-3087.

Manual Equivalent Method: EQL-0783-058

[*Federal Register: Vol. 48, page 29742, 06/28/83*]

Energy-Dispersive X-Ray Fluorescence Spectrometry (NEA, Inc.)

"Determination of Lead Concentration in Ambient Particulate Matter by Energy-Dispersive X-Ray Fluorescence Spectrometry (NEA, Inc.)" Nuclear Environmental Analysis, Inc., Suite 260, 10950 SW 5th Street, Beaverton, OR 97005.

Manual Equivalent Method: EQL-0589-072

[*Federal Register: Vol. 54, page 20193, 05/10/89*]

Flame Atomic Absorption Spectrometry

"Determination of Lead Concentration in Ambient Particulate Matter by Flame Atomic Absorption Spectrometry Following Ultrasonic Extraction with Heated HNO₃-HCl"

Manual Equivalent Method: EQL-0380-043

[*Federal Register: Vol. 45, page 14648, 03/06/80*]

Flameless Atomic Absorption Spectrometry (EPA/RTP, N.C.)

"Determination of Lead Concentration in Ambient Particulate Matter by Flameless Atomic Absorption Spectrometry (EPA/RTP, N.C.)"

Manual Equivalent Method: EQL-0380-044

[*Federal Register: Vol. 45, page 14648, 03/06/80*]

Flameless (Graphite Furnace) Atomic Absorption (Houston, Texas)

"Determination of Lead Concentration in Ambient Particulate Matter by Flameless (Graphite Furnace) Atomic Absorption (City of Houston, Texas)." Health and Human Services Department, Environmental Chemistry Service, 1115 S. Braeswood, Houston, TX 77030.

Manual Equivalent Method: EQL-0895-107

[*Federal Register: Vol. 60, page 39383, 08/02/95*]

Flameless Atomic Absorption Spectrometry (Omaha)

"Determination of Lead Concentration in Ambient Particulate Matter by Flameless Atomic Absorption Spectrometry (Omaha-Douglas County Health Department)" Omaha-Douglas County Health Department, 1819 Farnam Street, Omaha, NE 68183

Manual Equivalent Method: EQL-0785-059

[*Federal Register: Vol. 50, page 37909, 09/18/85*]

Inductively Coupled Argon Plasma-Optical Emission Spectrometry (Doe Run)

"Determination of Lead Concentration in Ambient Particulate Matter by Inductively Coupled Argon Plasma-Optical Emission Spectrometry (Doe Run Co.)" Doe Run Company, Smelting Division, 881 Main Street Herculaneum, MO 63048

Manual Equivalent Method: EQL-0196-113

[*Federal Register: Vol. 61, page 11404, 03/20/96*]

Inductively Coupled Argon Plasma-Optical Emission Spectrometry (EPA/RTP)

"Determination of Lead Concentration in Ambient Particulate Matter by Inductively Coupled Argon Plasma-Optical Emission Spectrometry (EPA/RTP, N.C.)"

Manual Equivalent Method: EQL-0380-045

[*Federal Register: Vol. 45, page 14648, 03/06/80*]

Inductively Coupled Argon Plasma-Optical Emission Spectrometry (IL)

"Determination of Lead Concentration in Ambient Particulate Matter by Inductively Coupled Argon Plasma-Optical Emission Spectrometry (State of Illinois)." State of Illinois, Environmental Protection Agency, Champaign Inorganic Laboratory, 2120 South First Street, Champaign, IL 61820

Manual Equivalent Method: EQL-1193-094

[*Federal Register: Vol. 58, page 61902, 11/23/93*]

Inductively Coupled Argon Plasma-Optical Emission Spectrometry (Kansas)

"Determination of Lead Concentration in Ambient Particulate Matter by Inductively Coupled Argon Plasma-Optical Emission Spectrometry (State of Kansas)" State of Kansas, Department of Health and Environment, Forbes Field, Building 740, Topeka, KS 66620-0001.

Manual Equivalent Method: EQL-0592-085

[*Federal Register: Vol. 57, page 20823, 05/15/92*]

Inductively Coupled Argon Plasma-Optical Emission Spectrometry (Montana)

"Determination of Lead Concentration in Ambient Particulate Matter by Inductively Coupled Argon Plasma-Optical Emission Spectrometry (State of Montana)". State of Montana, Department of Health and Environmental Sciences, Cogswell Building, Helena, MT 59620.

Manual Equivalent Method: EQL-0483-057

[*Federal Register: Vol. 48, page 14748, 04/05/83*]

Inductively Coupled Argon Plasma-Optical Emission Spectrometry (NETI) *Manual Equivalent Method: EQL-1188-069*
"Determination of Lead Concentration in Ambient Particulate Matter by Inductively Coupled Argon Plasma-Optical Emission Spectrometry (Northern Engineering and Testing, Inc.)" Northern Engineering and Testing, Inc., P.O. Box 30615, Billings, MT 59107.
[*Federal Register*: Vol. 53, page 44947, 11/07/88]

Inductively Coupled Argon Plasma-Optical Emission Spectrometry (NH) *Manual Equivalent Method: EQL-1290-080*
"Determination of Lead Concentration in Ambient Particulate Matter by Inductively Coupled Argon Plasma-Optical Emission Spectrometry (State of New Hampshire)" State of New Hampshire, Department of Environmental Services, Laboratory Service Unit, 6 Hazen Drive (P.O. Box 95), Concord, NH 03302-0095.
[*Federal Register*: Vol. 55, page 49119, 11/26/90]

Inductively Coupled Argon Plasma-Optical Emission Spectrometry (PA) *Manual Equivalent Method: EQL-0592-086*
"Determination of Lead Concentration in Ambient Particulate Matter by Inductively Coupled Argon Plasma-Optical Emission Spectrometry (Commonwealth of Pennsylvania)" Commonwealth of Pennsylvania, Department of Environmental Resources, P.O. Box 2357, Harrisburg, PA 17105-2357.
[*Federal Register*: Vol. 57, page 20823, 05/15/92]

Inductively Coupled Argon Plasma-Optical Emission Spectrometry (Pima, AZ) *Manual Equivalent Method: EQL-0995-109*
"Determination of Lead Concentration in Ambient Particulate Matter by Inductively Coupled Argon Plasma-Optical Emission Spectrometry (Pima County, Arizona)." Pima County, Wastewater Management Department, 201 North Stone Avenue, Tucson, Arizona 85701-1207.
[*Federal Register*: Vol. 60, page 54684, 10/25/95]

Inductively Coupled Argon Plasma-Mass Spectrometry (Pima Co., AZ) *Manual Equivalent Method: EQL-0995-110*
"Determination of Lead Concentration in Ambient Particulate Matter by Inductively Coupled Plasma-Mass Spectrometry (Pima County, Arizona)." Pima County, Wastewater Management Department, 201 North Stone Avenue, Tucson, Arizona 85701-1207.
[*Federal Register*: Vol. 60, page 54684, 10/25/95]

Inductively Coupled Argon Plasma-Optical Emission Spectrometry (RI) *Manual Equivalent Method: EQL-0888-068*
"Determination of Lead Concentration in Ambient Particulate Matter by Inductively Coupled Argon Plasma-Optical Emission Spectrometry (State of Rhode Island)," State of Rhode Island Department of Health, Air Pollution Laboratory, 50 Orms Street, Providence, RI 02904
[*Federal Register*: Vol. 53, page 30866, 08/16/88]

Inductively Coupled Argon Plasma-Optical Emission Spectrometry (Silver Valley) *Manual Equivalent Method: EQL-1288-070*
"Determination of Lead Concentration in Ambient Particulate Matter by Inductively Coupled Argon Plasma-Optical Emission Spectrometry (Silver Valley Laboratories)" Silver Valley Laboratories, Inc., P.O. Box 929, Kellogg, ID 83837.
[*Federal Register*: Vol. 53, page 48974, 12/05/88]

Inductively Coupled Argon Plasma-Optical Emission Spectrometry (WV) *Manual Equivalent Method: EQL-0694-096*
"Determination of Lead Concentration in Ambient Particulate Matter by Inductively Coupled Argon Plasma-Optical Emission Spectrometry (State of West Virginia)." State of West Virginia, Department of Commerce, Labor and Environmental Resources, Division of Environmental Protection, 1558 Washington Street East, Charleston, WV 25311-2599
[*Federal Register*: Vol. 59, page 29429, 06/07/94]

Wavelength Dispersive X-Ray Fluorescence Spectrometry (CA) *Manual Equivalent Method: EQL-0581-052*
"Determination of Lead Concentration in Ambient Particulate Matter by Wavelength Dispersive X-Ray Fluorescence Spectrometry" California Department of Health Services, Air & Industrial Hygiene Laboratory, 2151 Berkeley Way, Berkeley, CA 94704.
[*Federal Register*: Vol. 46, page 29986, 06/04/81]

NOTES

¹ Users should be aware that designation of this analyzer for operation on ranges less than the range specified in the performance specifications for this analyzer (40 CFR 53, Subpart B) is based on meeting the same absolute performance specifications required for the specified range. Thus, designation of these lower ranges does not imply commensurably better performance than that obtained on the specified range.

² This analyzer is approved for use, with proper factory configuration, on either 50 or 60 Hertz line frequency and nominal power line voltages of 115 Vac and 220 Vac.

Sources or Contacts for Designated Reference and Equivalent Methods

ABB Process Analytics
P.O. Box 831
Lewisburg, WV 24901
(304) 647-4358

Advanced Pollution
Instrumentation, Inc.
6565 Nancy Ridge Drive
San Diego, CA 92121-2251
(619) 657-9800

Andersen Instruments
500 Technology Court
Smyrna, GA 30082-9211
(800) 241-6898

ASARCO Incorporated
3422 South 700 West
Salt Lake City, UT 84119
(801) 262-2459

Beckman Instruments, Inc.
Process Instruments Division
2500 Harbor Blvd.
Fullerton, CA 92634
(714) 871-4848

Bendix
[Refer to ABB Process Analytics]

BGI Incorporated
58 Guinan Street
Waltham, MA 02154

Columbia Scientific Industries
11950 Jollyville Road
Austin, TX 78759
(800) 531-5003

Combustion Engineering
[Refer to ABB Process Analytics]

Dasibi Environmental Corp.
506 Paula Avenue
Glendale, CA 91201
(818) 247-7601

DKK Corporation
4-13-14 Kichijoji Kitamachi,
Musashino-shi
Tokyo, 180, Japan

Environnement S.A
111, bd Robespierre
78300 Poissy, France
Instruments also available from:
Altech/Environnement U.S.A.
7206 Impala Drive
Richmond, VA 23228
(804) 262- 4447
kchaffee@altechusa.com

Environics, Inc.
69 Industrial Park Rd. E.
Tolland, CT 06084-2805
(203) 429-0077

Graseby GMW
[Refer to Andersen Instruments]

Horiba Instruments Incorporated
17671 Armstrong Avenue
Irvine, CA 92714
(800) 446-7422

Lear Siegler
[Refer to Monitor Labs, Inc.]

Commonwealth of Massachusetts
Department of Environmental
Quality Engineering
Tewksbury, MA 01876

Met One Instruments, Inc.
1600 Washington Blvd.
Grants Pass, OR 97526

McMillan
[Refer to Columbia Scientific
Industries]

Mine Safety Appliances
600 Penn Center Blvd.
Pittsburgh, PA 15235-5810
(412) 273-5101

Monitor Labs, Inc.
74 Inverness Drive
Englewood, CO 80112-5189
(800) 422-1499

Opsis AB, Furulund, Sweden
Instruments also available from:
Opsis, Inc.
146-148 Sound Beach Avenue
Old Greenwich, CT 06870
(203) 698-1810

State of Oregon
Department of Environmental Quality
Air Quality Division
811 S.W. Sixth Avenue
Portland, OR 97204

PCI Ozone Corp.
One Fairfield Crescent
West Caldwell, NJ 07006
(201) 575-7052

Phillips Electronic Instruments, Inc.
85 McKee Drive
Mahwah, NJ 07430

Rupprecht & Patashnik Co., Inc.
25 Corporate Circle
Albany, NY 12203
(518) 452-0065

Thermo Environmental Instruments,
Inc.
8 West Forge Parkway
Franklin, MA 02038
(508) 520-0430

U.S. EPA
National Exposure Research Laboratory
Human Exposure & Atmospheric
Sciences Division
MD-46
Research Triangle Park, NC 27711
(919) 541- 2622

Wedding and Associates, Inc.
[Refer to Thermo Environmental
Instruments, Inc.]

U.S. EPA REFERENCE & EQUIVALENT METHODS FOR AMBIENT AIR

September 1, 1999

<u>Method</u>	<u>Designation Number</u>	<u>Method Code</u>	<u>Method</u>	<u>Designation Number</u>	<u>Method Code</u>
SO_x Manual Methods					
Reference method (pararosaniline)	--	097	Advanced Pollution Instr. 200	RFNA-0691-082	082
Technicon I (pararosaniline)	EQS-0775-001	097	Advanced Pollution Instr. 200A	RFNA-1194-099	099
Technicon II (pararosaniline)	EQS-0775-002	097	Beckman 952A	RFNA-0179-034	034
SO_x Analyzers					
Advanced Pollution Instr. 100	EQSA-0990-077	077	Bendix 8101-B	RFNA-0479-038	038
Advanced Pollution Instr. 100A	EQSA-0495-100	100	Bendix 8101-C	RFNA-0777-022	022
Asarco 500	EQSA-0877-024	024	Columbia Scientific Indust. 1600, 5600	RFNA-0977-025	
Beckman 953	EQSA-0678-029	029	025		
Bendix 8303	EQSA-1078-030	030	Dasibi 2108	RFNA-1192-089	089
Columbia Scientific Industries 5700	EQSA-0494-095	095	DKK Corp GLN-114E	RFNA-0798-121	121
Dasibi 4108	EQSA-1086-061	061	Environnement S.A. AC31M	RFNA-0795-104	104
DKK Corp, Model GFS-32	EQSA-0701-115		Horiba APNA-360	RFNA-0196-111	111
115			Lear Siegler or Monitor Labs ML9841A, ML9841B, Monitor Labs ML9841B, Wedding 1030		
Environnement S.A. AF21M	EQSA-0292-084	084	Wedding 1030	RFNA-1292-090	090
Horiba Model APSA-360/APSA-360ACE	EQSA-0197-114	114	Meloy NA530R	RFNA-1078-031	031
Lear Siegler AM2020	EQSA-1280-049	049	Monitor Labs 8440E	RFNA-0677-021	021
Lear Siegler SM1000	EQSA-1275-005	005	Monitor Labs or Lear Siegler 8840	RFNA-0280-042	042
Lear Siegler or Monitor Labs ML9850,			Monitor Labs or Lear Siegler 8841	RFNA-0991-083	083
Monitor Labs ML9850B, Wedding 1040	EQSA-0193-092	092	Opsis AR 500, System 300 (open path)	EQNA-0495-102	102
Meloy SA185-2A	EQSA-1275-006	006	Philips PW9762/02	RFNA-0879-040	040
Meloy SA285E	EQSA-1078-032	032	Thermo Electron or Thermo		
Meloy SA700	EQSA-0580-046	046	Environmental Instruments 14B/E	RFNA-0179-035	035
Monitor Labs 8450	EQSA-0876-013	513	Thermo Electron or Thermo		
Monitor Labs or Lear Siegler 8850	EQSA-0779-039	039	Environmental Instruments 14D/E	RFNA-0279-037	037
Monitor Labs or Lear Siegler 8850S	EQSA-0390-075	075	Thermo Environmental Instr. 42, 42C	RFNA-1289-074	074
Opsis AR 500, System 300 (open path)	EQSA-0495-101	101			
Philips PW9700	EQSA-0876-011	511			
Philips PW9755	EQSA-0676-010	010			
Thermo Electron 43	EQSA-0276-009	009			
Thermo Electron 43A or Thermo					
Environmental Instruments 43B, 43C	EQSA-0486-060	060			
O₃ Analyzers					
Advanced Pollution Instr. 400/400A	EQOA-0992-087	087	Pb Manual Methods		
Beckman 950A	RFOA-0577-020	020	Reference method (hi-vol/AA spect.)	--	803
Bendix 8002	RFOA-0176-007	007	Hi-vol/AA spect. (alt. extr.)	EQL-0380-043	043
Columbia Scientific Industries 2000	RFOA-0279-036	036	Hi-vol/Energy-disp XRF (TX ACB)	EQL-0783-058	058
Dasibi 1003-AH,-PC,-RS	EQOA-0577-019	019	Hi-vol/Energy-disp XRF (NEA)	EQL-0589-072	072
Dasibi 1008-AH	EQOA-0383-056	056	Hi-vol/Flameless AA (EMSL/EPA)	EQL-0380-044	044
Envronics 300	EQOA-0990-078	078	Hi-vol/Flameless AA (Houston)	EQL-0895-107	107
Environnement S.A. O ₃ 41M	EQOA-0895-105	105	Hi-vol/Flameless AA (Omaha)	EQL-0785-059	059
Horiba APOA-360	EQOA-0196-112	112	Hi-vol/ICAP spect. (Doe Run Co.)	EQL-0196-113	113
Lear Siegler or Monitor Labs ML9810,			Hi-vol/ICAP spect. (EMSL/EPA)	EQL-0380-045	045
Monitor Labs ML9810B, Wedding 1010	EQOA-0193-091	091	Hi-vol/ICAP spect. (Illinois)	EQL-1193-094	094
McMillan 1100-1	RFOA-1076-014	514	Hi-vol/ICAP spect. (Kansas)	EQL-0592-085	085
McMillan 1100-2	RFOA-1076-015	515	Hi-vol/ICAP spect. (Montana)	EQL-0483-057	057
McMillan 1100-3	RFOA-1076-016	016	Hi-vol/ICAP spect. (NE&T)	EQL-1188-069	069
Meloy OA325-2R	RFOA-1075-003	003	Hi-vol/ICAP spect. (New Hampshire)	EQL-1290-080	080
Meloy OA350-2R	RFOA-1075-004	004	Hi-vol/ICAP spect. (Pennsylvania)	EQL-0592-086	086
Monitor Labs 8410E	RFOA-1176-017	017	Hi-vol/ICAP spect. (Pima Co.,AZ)	EQL-0995-109	109
Monitor Labs or Lear Siegler 8810	EQOA-0881-053	053	Hi-vol/ICAP spect. (Rhode Island)	EQL-0995-110	110
Opsis AR 500, System 300 (open path)	EQOA-0495-103	103	Hi-vol/ICAP spect. (Silver Val. Labs)	EQL-0888-068	068
PCI Ozone Corp. LC-12	EQOA-0382-055	055	Hi-vol/ICAP spect. (West Virginia)	EQL-1288-070	070
Philips PW9771	EQOA-0777-023	023	Hi-vol/WL-disp. XRF (CA A&IHL)	EQL-0694-096	096
Thermo Electron or Thermo				EQL-0581-052	052
Environmental Instruments 49, 49C	EQOA-0880-047	047			
CO Analyzers					
Advanced Pollution Instr. 300	RFCA-1093-093	093	PM₁₀ Samplers		
Beckman 866	RFCA-0876-012	012	Andersen Instruments, RAAS10-100	RFPS-0699-130	130
Bendix 8501-5CA	RFCA-0276-008	008	Andersen Instruments, RAAS10-200	RFPS-0699-131	131
Dasibi 3003	RFCA-0381-051	051	Andersen Instruments, RAAS10-300	RFPS-0699-132	132
Dasibi 3008	RFCA-0488-067	067	BGI Model PQ100	RFPS-1298-124	124
Environnement s.a. CO11M	RFCA-0995-108	108	BGI Model PQ200	RFPS-1298-125	125
Horiba AQM-10, -11, -12	RFCA-1278-033	033	Oregon DEQ Medium volume sampler	RFPS-0389-071	071
Horiba 300E/300SE	RFCA-1180-048	048	Rupprecht & Patashnick Partisol 2000	RFPS-0694-098	098
Horiba APMA-360	RFCA-0895-106	106	R & P Partisol-FRM Model 2000	RFPS-1298-126	126
Lear Siegler or Monitor Labs ML9830,			R & P Partisol-Plus Model 2025 Seq.	RFPS-1298-127	127
Monitor Labs ML9830B, Wedding 1020	RFCA-0992-088	088	Sierra-Andersen/GMW 1200	RFPS-1287-063	063
MASS - CO 1 (Massachusetts)	RFCA-1280-050	050	Sierra-Andersen/GMW 321-B	RFPS-1287-064	064
Monitor Labs 8310	RFCA-0979-041	041	Sierra-Andersen/GMW 321-C	RFPS-1287-065	065
Monitor Labs or Lear Siegler 8830	RFCA-0388-066	066	Sierra-Andersen/GMW 241 Dichot.	RFPS-0789-073	073
MSA 202S	RFCA-0177-018	018	W&A/Thermo Electron Mod 600 HVL	RFPS-1087-062	062
Thermo Electron or Thermo					
Environmental Instruments 48, 48C	RFCA-0981-054	054	PM₁₀ Analyzers		
NO_x Manual Methods					
Sodium arsenite (orifice)	EQN-1277-026	084	Andersen Instruments Beta FH621-N	EQPM-0990-076	076
Sodium arsenite/Technicon II	EQN-1277-027	084	Met One BAM1020, GBAM1020,		
TGS-ANSA (orifice)	EQN-1277-028	098	BAM1020-1, GBAM1020-1	EQPM-0798-122	122
PM_{2.5} Samplers					
Thermo Electron or Thermo			R & P TEOM 1400, 1400a	EQPM-1090-079	079
Environmental Instruments 48, 48C			W&A/Thermo Electron 650 Beta Gauge	EQPM-0391-081	081
TSP Manual Method					
Sodium arsenite (orifice)			Andersen Model RAAS2.5-200 Audit	RFPS-0299-128	128
Sodium arsenite/Technicon II			BGI PQ200/200A	RFPS-0498-116	116
TGS-ANSA (orifice)			Graseby Andersen RAAS2.5-100	RFPS-0598-119	119
			Graseby Andersen RAAS2.5-300	RFPS-0598-120	120
			R & P Partisol-FRM 2000	RFPS-0498-117	117
			R & P Partisol-Plus 2025	RFPS-0498-118	118
			Thermo Envr Model 605 CAPS	RFPS-1098-123	123
			R & P Partisol 2000 Audit	RFPS-0499-129	129
			Reference method (high-volume)	--	802